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Huntingdon

FAT 80'023/S

POTENTIAL TUMORIGENIC AND CHRONIC TOXICITY EFFECTS IN PROLONGED DIETARY ADMINISTRATION TO HAMSTERS

Volume 6

CONFIDENTIAL CBG 756/972896

FAT 80'023/S

POTENTIAL TUMORIGENIC AND CHRONIC TOXICITY EFFECTS IN PROLONGED DIETARY ADMINISTRATION TO HAMSTERS

Volume 6

Sponsor

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Report issued 30 March 1999

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(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 421F (Intercurrent)

CLINICAL FINDINGS

Hunched posture, lethargy, generalised pallor and unsteady gait were noted prior to sacrifice.

Incidental findings of overgrown incisors and hair loss were noted.

Sacrificed due to poor condition in Week 88.

MACROSCOPIC FINDINGS

Thoracic Cavity

Contained serous fluid

Lungs

Congested Oedematous

Heart

Thrombus - left atrium: 3mm

Kidneys

Pale

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Marked) Prominent/thickened alveolar septae: (Marked)

Interstitial pneumonitis: (Moderate)

(Pathology - continued)

Hamster No/Sex: 421F - continued

MICROSCOPIC FINDINGS - continued

Heart

Atrial thrombus

Myocardial degeneration: (Minimal)

Thymus

Epithelial cysts

Liver

Generalised hepatocyte vacuolation: (Minimal)

Hepatocyte necrosis: (Minimal, Focus) Bile duct hyperplasia: (Minimal)

Kidneys

Dilated cortical tubules.: (Minimal)
Distended medullary tubule(s): (Minimal)
Dilated Bowman's capsule(s): (Minimal)

Cervix

Cystic endometrial glands at cervix

Thyroids

Ultimobranchial cysts

Adrenals

Subcapsular proliferation of fibroblast like cells: (Minimal)

Cortical hyperplasia: (Minimal)

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction

Bone/femur/joint

Osteoarthrosis

Factors Contributory To Death

Atrial thrombus

(Pathology - continued)

Hamster No/Sex: 421F - continued

MICROSCOPIC FINDINGS - continued

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Uterus; Vagina; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 422F (Terminal)

CLINICAL FINDINGS

Left eyelid partially closed noted Weeks 81 to 91.

Incidental finding of broken lower incisors was noted.

MACROSCOPIC FINDINGS

Lungs

Congested: (Patchy)

Ovaries

Serosanguineous fluid-filled cyst: (Right) 13mm

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Vascular congestion

Heart

Myocardial degeneration: (Minimal)

Spleen

Extramedullary haemopoiesis: (Minimal)

Pancreas

Interstitial inflammatory cells

Kidneys

Distended medullary tubule(s): (Trace)

Dilated basophilic tubules containing eosinophilic colloid: (Minimal)

(Pathology - continued)

Hamster No/Sex: 422F - continued

MICROSCOPIC FINDINGS - continued

Ovaries

Cystic periovarian sac

Uterus

Endometrial papillary hyperplasia

Cervix

Endometrial adenocarcinoma: (NEOPLASTIC, MALIGNANT, PRIMARY) Leiomyoma: (NEOPLASTIC, BENIGN, PRIMARY)

Thyroids

Ultimobranchial cysts

Adrenals

Subcapsular proliferation of fibroblast like cells: (Minimal) Cortical hyperplasia: (Minimal)

Eyes

Collapsed lens associated retinal detachment and uveitis: (Unilateral)

Bone Marrow/sternum

Chondromucinous degeneration

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Liver; Liver (ORO stain); Urinary Bladder; Vagina; Parathyroids : (One only); Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Stomach; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 1423F (Intercurrent)

CLINICAL FINDINGS

Noisy respiration and generalised pallor noted from Week 47. Emaciated appearance, lethargy, hunched posture and unsteady gait were noted prior to sacrifice.

Incidental finding of overgrown incisors was noted.

Sacrificed due to poor condition in Week 50.

MACROSCOPIC FINDINGS

Lungs

Congested: (Minimal)

Heart

Pale

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Kidneys

Cortical cyst

Ovaries

A few vacuolated interstitial cells

Uterus

Endometrial papillary hyperplasia

Thyroids

Dilated follicle(s)

(Pathology - continued)

Hamster No/Sex: 1423F - continued

MICROSCOPIC FINDINGS - continued

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction Mucosal inflammation - glandular region Distended gastric gland(s)

Factors Contributory To Death

Poor clinical condition

The following tissues were considered normal:

Trachea; Larynx: Nasal Passages; Lachrymal Gland: Lungs: (W.N.L.); Heart: (W.N.L.); Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver; Liver (ORO stain); Pancreas; Urinary Bladder; Cervix; Vagina; Parathyroids: (One only); Adrenals; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum: Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum; Bone/femur/joint

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

424F (Intercurrent)

CLINICAL FINDINGS

Laboured respiration and hunched posture were noted in Week 85, generalised pallor, apparent hypothermia, lethargy and unsteady gait were noted prior to sacrifice.

Incidental finding of overgrown incisors was noted.

Sacrificed due to poor condition in Week 85.

MACROSCOPIC FINDINGS

Thoracic Cavity

Contained serous fluid

Lungs

Oedematous

Heart

Thrombus - left atrium: 5mm

Liver

Subcapsular cyst/s: (Two) Median lobe 10mm

Kidneys

Uniform cortical scarring: (Moderate)

Uterus

Clear fluid swelling: 3mm

All the other organs and tissues appeared normal.

(Pathology - continued)

Hamster No/Sex: 424F - continued

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Marked) Prominent/thickened alveolar septae: (Severe)

Intra-alveolar oedema: (Moderate)

Heart

Atrial thrombus

Thymus

Involution

Liver

Multiple biliary cysts

Pancreas

Interstitial inflammatory cells

Kidnevs

Dilated and basophilic cortical tubules: (Minimal)
Distended medullary tubule(s): (Minimal)
Radial area(s)-dilated basophilic tubules+/eosin colloid+/fibrosis: (Minimal)

Ovaries

Thecoma: (NEOPLASTIC, BENIGN, PRIMARY)

Vagina

Squamous epithelial hyperplasia and hyperkeratosis: (Moderate, Areas)

Thyroids

Follicular adenoma: (NEOPLASTIC, BENIGN, PRIMARY)

Adrenals

Subcapsular proliferation of fibroblast like cells: (Minimal) Cortical congestion and necrosis: (Moderate, Unilateral)

Eyes

Lenticular degeneration: (Minimal, Unilateral)

(Pathology - continued)

Hamster No/Sex: 424F - continued

MICROSCOPIC FINDINGS - continued

Bone/femur/joint Osteoarthrosis

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Urinary Bladder; Uterus : (W.N.L.); Cervix; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Stomach: Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Bone Marrow/sternum

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 425F (Intercurrent)

CLINICAL FINDINGS

Noisy respiration and emaciated appearance noted from Week 51. Generalised pallor and respiratory distress were noted prior to sacrifice.

Sacrificed due to poor condition in Week 63.

MACROSCOPIC FINDINGS

No abnormalities detected

MICROSCOPIC FINDINGS

The following observations were noted:

Larynx

Submucosal lymphoid follicle

Kidneys

Dilated and basophilic cortical tubules: (Minimal, Foci)

Thyroids

Dilated follicle(s)

Adrenals

Brown pigment at the corticomedullary junction

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction

Sciatic Nerve

Degenerate nerve fibres

Factors Contributory To Death

Poor clinical condition

(Pathology - continued)

Hamster No/Sex: 425F - continued

MICROSCOPIC FINDINGS - continued

The following tissues were considered normal:

Trachea; Nasal Passages; Lachrymal Gland; Lungs; Heart; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Uterus; Cervix; Vagina; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Eyes; Bone Marrow/sternum; Bone/femur/joint

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 426F (Terminal)

CLINICAL FINDINGS

Hunched posture and piloerection noted from Week 90. Laboured respiration noted in Week 91.

Incidental finding of overgrown incisors was noted.

MACROSCOPIC FINDINGS

Lungs

Congested Oedematous

Heart

Enlarged Pale

Thrombus - left atrium: 4mm

Liver

Irregular surface

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Marked)
Prominent/thickened alveolar septae: (Marked)

Heart

Atrial thrombus

Myocardial degeneration: (Moderate)

(Pathology - continued)

Hamster No/Sex: 426F - continued

MICROSCOPIC FINDINGS - continued

Liver

Centrilobular hepatocyte hypertrophy: (Minimal)

Kidneys

Dilated and basophilic cortical tubules: (Trace) Distended medullary tubule(s): (Trace)

Ovaries

Haemorrhagic cyst

Cervix

Endometrial adenocarcinoma: (NEOPLASTIC, MALIGNANT, PRIMARY)

Thyroids

Ultimobranchial cysts

Adrenals

Subcapsular proliferation of fibroblast like cells: (Minimal) Cortical hyperplasia: (Minimal)

Rrain

Perivascular cuffing - submeningeal blood vessels

Sciatic Nerve

Degenerate nerve fibres

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Uterus; Vagina; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Stomach; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Spinal Cord; Eyes; Bone Marrow/sternum

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 427F (Terminal)

CLINICAL FINDINGS

Incidental finding of overgrown incisors was noted.

MACROSCOPIC FINDINGS

Liver

Clear fluid-filled cyst: Median lobe 5mm Clear fluid-filled subcapsular cyst: Left lobe 1mm

Lymph Nodes - Mesenteric

Enlarged

Adrenals

Enlarged: (Left) 0.0199g Pale subcapsular area: (Left) 2mm

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Moderate)
Pigmented alveolar macrophages: (Minimal)
Prominent/thickened alveolar septae: (Moderate)

Heart

Atrial thrombus

Myocardial degeneration: (Minimal)

Lymph Nodes - Mesenteric

Reactive hyperplasia

Inflammatory cells in the surrounding adipose tissue

(Pathology - continued)

Hamster No/Sex:

427F - continued

MICROSCOPIC FINDINGS - continued

Spleen

Extramedullary haemopoiesis: (Moderate)

Liver

Pigmented multinucleate giant cells: (Minimal) Biliary cyst(s)

Kidneys

Dilated and basophilic cortical tubules: (Minimal) Distended medullary tubule(s): (Minimal)

Uterus

Endometrial papillary hyperplasia

Cervix

Hyperplasia of endometrial glands at cervix

Thyroids

C-cell adenoma: (NEOPLASTIC, BENIGN, PRIMARY)

Adrenals

Cortical adenoma: (NEOPLASTIC, BENIGN, PRIMARY) Cortical hyperplasia: (Minimal)

Stomach

Glandular tissue showing squamous metaplasia in the muscular coat

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Thymus; Lymph Nodes - Cervical; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Vagina; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 428F (Intercurrent)

CLINICAL FINDINGS

Hunched posture noted Week 82 to 84 and prior to sacrifice and increased respiration noted from Week 82. Piloerection, apparent hypothermia and unsteady gait were noted prior to sacrifice.

Incidental finding of overgrown incisors was noted.

Sacrificed due to poor condition in Week 86.

MACROSCOPIC FINDINGS

Thoracic Cavity

Contained serous fluid

Lungs

Oedematous

Heart

Thrombus - left atrium: 2mm

Liver

Clear fluid-filled subcapsular cyst: Right anterior lobe 8mm

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Severe) Prominent/thickened alveolar septae: (Severe) Intra-alveolar oedema: (Moderate, Foci)

(Pathology - continued)

Hamster No/Sex: 428F - continued

MICROSCOPIC FINDINGS - continued

Heart

Atrial thrombus

Myocardial degeneration: (Moderate)

Liver

Biliary cyst(s)

Brown pigment laden macrophages: (Minimal)
Centrilobular hepatocyte necrosis: (Minimal, Foci)
Centrilobular sinusoidal congestion: (Moderate, Foci)
Centrilobular sinusoidal dilatation: (Moderate, Foci)

Kidnevs

Distended medullary tubule(s): (Minimal)

Thyroids

Ultimobranchial cysts

Adrenals

Cystic spaces at the corticomedullary junction Congestion

Stomach

Hyperplasia and hyperkeratosis of the epithelium non-glandular region: (Moderate)
Glandular tissue in the muscular coat - glandular region
Mucosal inflammation - glandular region

Bone/femur/joint

Osteoarthrosis

Factors Contributory To Death

Atrial thrombus

(Pathology - continued)

Hamster No/Sex: 428F - continued

MICROSCOPIC FINDINGS - continued

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries : (One only); Uterus; Cervix; Vagina; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

Tissues not available for examination were:

Lachrymal Gland: (Not seen) Parathyroids: (Not seen)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 429F (Intercurrent)

CLINICAL FINDINGS

Generalised pallor, hunched posture and increased respiration noted from Week 88. Noisy respiration, piloerection, apparent hypothermia and lethargy noted prior to sacrifice.

Incidental finding of hair loss was noted.

Sacrificed due to poor condition in Week 89.

MACROSCOPIC FINDINGS

Lungs

Dark subpleural foci: (A few)

Liver

Clear fluid-filled cyst/s: (A few) 1mm

Kidnevs

Irregular cortical scarring: (Minimal)

Ovaries

Serosanguineous fluid-filled cyst: (Right) 4mm

Cervix

Thickened: (Minimal)

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Nasal Passages

Adenoma arising nasal turbinates: (NEOPLASTIC, BENIGN, PRIMARY)

(Pathology - continued)

Hamster No/Sex: 429F - continued

MICROSCOPIC FINDINGS - continued

Lungs

Alveolitis with associated polymorphs: (Trace)

Heart

Myocardial degeneration: (Minimal)

Lymph Nodes - Mesenteric

Metastatic deposits adenocarcinoma probably arising in intestines

Liver

Multiple biliary cysts

Biliary cysts-haemorrhage, fibrosis and pigment deposition

Kidneys

Distended medullary tubule(s): (Minimal)

Dilated basophilic tubules containing eosinophilic colloid: (Minimal)

Urinary Bladder

Urothelial hyperplasia: (Minimal)

Ovaries

Haemorrhagic cyst

Uterus

Endometrial polyp: (NEOPLASTIC, BENIGN, PRIMARY)

Cervix

Cystic endometrial glands at cervix

Thyroids

Ultimobranchial cysts

Adrenals

Subcapsular proliferation of fibroblast like cells: (Minimal)

Bone Marrow/sternum

Myeloid hyperplasia

Bone/femur/joint

Osteoarthrosis

(Pathology - continued)

Hamster No/Sex: 429F - continued

MICROSCOPIC FINDINGS - continued

Factors Contributory To Death

Poor clinical condition

The following tissues were considered normal:

Trachea; Larynx; Lachrymal Gland; Lymph Nodes - Cervical; Spleen; Liver (ORO stain); Pancreas; Vagina; Parathyroids: (One only); Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Stomach; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes

Tissues not available for examination were:

Thymus: (Not seen)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 430F (Terminal)

CLINICAL FINDINGS

Abdomen hard from Week 81 and noisy respiration Week 84 to 86.

Incidental finding of overgrown incisors was noted.

MACROSCOPIC FINDINGS

Lungs

Congested: (Patchy)

Liver

Clear fluid-filled cyst: Median lobe 1mm, Left lobe 2mm

Heum

Gaseous distension

Kidneys

Pale

Uniform cortical scarring: (Moderate)

Ovaries

Clear fluid-filled cyst: (Right) 3mm

Serosanguineous fluid-filled cyst: (Left) 3mm

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Larynx

Neuroendocrine cell hyperplasia: (Focus)

(Pathology - continued)

Hamster No/Sex:

430F - continued

MICROSCOPIC FINDINGS - continued

Nasal Passages

Dysplasia around incisor tooth root

Cyst lined ciliated epithelium/osteoid deposition-nares and turbinates

Lungs

Pigmented alveolar macrophages: (Minimal)

Heart

Myocardial degeneration: (Minimal)

Liver

Biliary cyst(s)
Multiple biliary cysts

Kidneys

Nephropathy: (Moderate)

Uterus

Endometrial papillary hyperplasia

Thyroids

Ultimobranchial cysts

Adrenals

Cortical hyperplasia: (Minimal)

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Lachrymal Gland; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Cervix; Vagina; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Stomach; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

(Pathology - continued)

Hamster No/Sex: 430F - continued

MICROSCOPIC FINDINGS - continued

Tissues not available for examination were:

Ovaries: (Lost)
Parathyroids: (Not seen)
Pituitary: (Not seen)

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

431F (Terminal)

CLINICAL FINDINGS

No signs of ill health or behavioural change were noted.

MACROSCOPIC FINDINGS

Liver

Pale

Irregular surface

Kidnevs

Pale

Uterus

Fluid distension: (Right horn, Moderate)

Right horn, a mass: (Pale) 5mm

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Focal osteoid deposition

Heart

Myocardial degeneration: (Minimal)

Thymus

Epithelial cysts

Liver

Multiple biliary cysts

(Pathology - continued)

Hamster No/Sex: 431F - continued

MICROSCOPIC FINDINGS - continued

Pancreas

Islet cell adenoma: (NEOPLASTIC, BENIGN, PRIMARY)

Ductular hyperplasia: (Multifocal)

Kidneys

Dilated and basophilic cortical tubules: (Trace, Unilateral)

Urinary Bladder

Urothelial hyperplasia: (Minimal)

Uterus

Endometrial adenocarcinoma: (NEOPLASTIC, MALIGNANT, PRIMARY)

Thyroids

Ultimobranchial cysts

Adrenals

Cortical hyperplasia: (Minimal)

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Cervix; Vagina; Parathyroids: (One only); Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Stomach; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

Tissues not available for examination were:

Ovaries: (Lost)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 432F (Intercurrent)

CLINICAL FINDINGS

Generalised pallor and increased respiration Week 8 to 13. Emaciated appearance noted Week 11 to 13 and from Week 18. Noisy respiration noted from Week 20 and hunched posture and apparent hypothermia were noted prior to sacrifice.

Sacrificed due to poor condition in Week 36.

MACROSCOPIC FINDINGS

Adipose Tissue

Minimal

Jeiunum

Gaseous distension: (Minimal)

Ileum

Gaseous distension

Caecum

Gaseous distension: (Severe)

Contents watery

Colon

Gaseous distension: (Upper)

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Larynx

Foreign material and debris - ventral pouch

(Pathology - continued)

Hamster No/Sex: 432F - continued

MICROSCOPIC FINDINGS - continued

Nasal Passages

Polymorphs and exudate within nasal cavity-anterior portion

Lungs

Increased numbers of alveolar macrophages: (Trace, Focal)

Pancreas

Dilated ducts: (Focus)

Kidneys

Dilated cortical tubules.: (Moderate, Foci) Distended medullary tubule(s): (Minimal, Foci)

Thyroids

Dilated follicle(s) Ectopic thymus

Factors Contributory To Death

Poor clinical condition

The following tissues were considered normal:

Trachea; Lachrymal Gland; Heart; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver; Liver (ORO stain); Urinary Bladder; Ovaries; Uterus; Cervix; Vagina; Parathyroids; Adrenals; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Stomach; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum; Bone/femur/joint

Tissues not available for examination were:

Thymus: (Not in pot)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 433F (Intercurrent)

CLINICAL FINDINGS

Left eyelid partially closed, unsteady gait, piloerection, hunched posture, laboured respiration, apparent hypothermia and stiff hindlimb gait were noted prior to sacrifice.

Incidental findings of overgrown incisors and hair loss were noted.

Sacrificed due to poor condition in Week 78.

MACROSCOPIC FINDINGS

Liver

Sucapsular cyst: Left lobe 2mm Dark area: Left lobe 3mm

Kidneys

Irregular cortical scarring: (Moderate)

Cervix

Thickened

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Marked)

Intra-alveolar haemorrhage: (Minimal)

Prominent/thickened alveolar septae: (Marked)

Intra-alveolar oedema: (Moderate)

(Pathology - continued)

Hamster No/Sex: 433F - continued

MICROSCOPIC FINDINGS - continued

Heart

Atrial thrombus Periarteritis

Liver

Periportal hepatocyte vacuolation: (Minimal)

Biliary cyst(s)

Centrilobular sinusoidal dilatation: (Minimal)

Angiectasis: (Area)

Liver (ORO stain)

Centrilobular fat deposition: (Minimal)

Kidnevs

Nephropathy: (Moderate)

Periarteritis

Urinary Bladder

Periarteritis

Literus

Endometrial polyp: (NEOPLASTIC, BENIGN, PRIMARY)

Cervix

Cystic endometrial glands at cervix

Adrenals

Lymphocytes in the adrenal medulla

Tongue

Periarteritis

Stomach

Hyperplasia and hyperkeratosis of the epithelium non-glandular region:

(Minimal)

Glandular tissue in the muscular coat non glandular/glandular junction

Periarteritis

Bone/femur/joint

Osteoarthrosis Periarteritis

(Pathology - continued)

Hamster No/Sex: 433F - continued

MICROSCOPIC FINDINGS - continued

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland: (One only); Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Pancreas; Ovaries; Vagina; Thyroids; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

Tissues not available for examination were:

Thymus: (Not seen)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 434F (Terminal)

CLINICAL FINDINGS

Incidental finding of overgrown incisors was noted.

MACROSCOPIC FINDINGS

Thyroids

Right lobe, a mass: 4mm

Liver

Clear fluid-filled subcapsular cyst/s: (A few) 3mm Irregular surface

Kidneys

Irregular cortical scarring: (Minimal)

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Pigmented alveolar macrophages: (Minimal)

Heart

Myocardial degeneration: (Minimal)

Spleen

Extrameuallary haemopoiesis: (Minimal)

Liver

Biliary cyst(s)

Multiple biliary cysts

(Pathology - continued)

Hamster No/Sex:

434F - continued

MICROSCOPIC FINDINGS - continued

Kidneys

Nephropathy: (Minimal)

Uterus

Endometrial papillary hyperplasia

Cervix

Hyperplasia of endometrial glands at cervix

Thyroids

Cystic follicular adenoma: (NEOPLASTIC, BENIGN, PRIMARY)

Adrenals

Subcapsular proliferation of fibroblast like cells: (Minimal)

Cortical hyperplasia: (Moderate)

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Vagina; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 435F (Terminal)

CLINICAL FINDINGS

Incidental finding of overgrown incisors was noted.

MACROSCOPIC FINDINGS

Lungs

Congested: (Left)

Liver

Clear fluid-filled subcapsular cyst: Median lobe 4mm

Kidnevs

Irregular cortical scarring: (Right, Minimal)

Ovaries

Serosanguineous fluid-filled cyst: Left 3mm, Right 22mm

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Trace)

Heart

Myocardial degeneration: (Minimal)

Spleen

Extramedullary haemopoiesis: (Minimal)

Liver

Centrilobular hepatocyte hypertrophy: (Minimal)

Biliary cyst(s)

(Pathology - continued)

Hamster No/Sex: 435F - continued

MICROSCOPIC FINDINGS - continued

Kidneys

Distended medullary tubule(s): (Trace)
Dilated basophilic tubules containing eosinophilic colloid: (Moderate, Unilateral)

Ovaries

Cystic periovarian sac

Cervix

Cystic endometrial glands at cervix

Thyroids

Dilated follicle(s)

Adrenals

Subcapsular proliferation of fibroblast like cells: (Minimal) Cystic spaces at the corticomedullary junction

Stomach

Papillomatous hyperplasia of the non-glandular epithelium.: (Minimal) Mucosal inflammation - glandular region

Eyes

Lenticular degeneration: (Trace, Unilateral)

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Liver (ORO stain); Pancreas; Urinary Bladder; Uterus; Vagina; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Bone Marrow/sternum

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

436F (Intercurrent)

CLINICAL FINDINGS

Pale extremities and noisy respiration noted from Week 22. Emaciated appearance, hunched posture and unsteady gait were noted prior to sacrifice.

Incidental finding of left hindlimb swollen was noted.

Sacrificed due to poor condition in Week 51.

MACROSCOPIC FINDINGS

No abnormalities detected

MICROSCOPIC FINDINGS

The following observations were noted:

Nasal Passages

Polymorphs and exudate within nasal cavity-anterior portion

Kidneys

Cystically distended medullary tubule(s): (Minimal, Focus)

Thyroids

Dilated follicle(s)

Stomach

Distended gastric gland(s)

Sciatic Nerve

Degenerate nerve fibres

Factors Contributory To Death

Poor clinical condition

(Pathology - continued)

Hamster No/Sex:

436F - continued

MICROSCOPIC FINDINGS - continued

The following tissues were considered normal:

Trachea; Larynx; Lachrymal Gland; Lungs; Heart; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Uterus; Cervix; Vagina; Parathyroids; Adrenals; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Eyes; Bone Marrow/sternum; Bone/femur/joint

Tissues not available for examination were:

Thymus: (Not seen)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 437F (Intercurrent)

CLINICAL FINDINGS

Left eye damaged and scabbed in Week 42.

Sacrificed due to eye injury in Week 42.

MACROSCOPIC FINDINGS

Eyes

Damaged: (Left)

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Liver

Periportal hepatocyte vacuolation: (Minimal)

Ovaries

A few vacuolated interstitial cells

Uterus

Endometrial papillary hyperplasia

Thyroids

Ultimobranchial cysts

Adrenals

Subcapsular proliferation of fibroblast like cells: (Moderate)

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction Mucosal inflammation - glandular region

(Pathology - continued)

Hamster No/Sex: 437F - continued

MICROSCOPIC FINDINGS - continued

Sciatic Nerve

Degenerate nerve fibres

Eves

Panopthalmitis: (Unilateral)

Factors Contributory To Death

Damaged eye

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lungs; Heart; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Kidneys; Urinary Bladder; Cervix; Vagina; Parathyroids: (One only); Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Skin; Brain; Spinal Cord; Bone Marrow/sternum; Bone/femur/joint

Tissues not available for examination were:

Mammary Glands: (Not in pot)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 438F (Intercurrent)

CLINICAL FINDINGS

Generalised pallor, lethargy, unsteady gait, body tremors and apparent hypothermia were noted prior to sacrifice.

Incidental finding of upper incisors missing was noted.

Sacrificed due to poor condition in Week 84.

MACROSCOPIC FINDINGS

Died awaiting post mortem

Incisors

Maloccluded: (Left, Upper) Missing: (Right, Upper)

Thoracic Cavity

Contained clear serous fluid

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Nasal Passages

Dysplasia around incisor tooth root

Lungs

Increased numbers of alveolar macrophages: (Marked) Prominent/thickened alveolar septae: (Moderate) Intra-alveolar oedema: (Trace, Focus)

(Pathology - continued)

Hamster No/Sex: 438F - continued

MICROSCOPIC FINDINGS - continued

Heart

Atrial thrombus

Myocardial degeneration: (Moderate)

Liver

Centrilobular hepatocyte vacuolation: (Moderate) Biliary cyst(s)

Kidneys

Distended medullary tubule(s): (Minimal)
Radial area(s)-dilated basophilic tubules+/eosin colloid+/fibrosis:
(Minimal)

Uterus

Polymorphs within the lumen: (Trace, Focal)

Cervix

Cystic endometrial glands at cervix

Vagina

Basal cell hyperplasia: (Area)

Thyroids

Ultimobranchial cysts

Adrenals

Cortical hyperplasia: (Minimal, Foci)

Haemorrhage and necrosis - cortex: (Moderate, Unilateral)

Pituitary

Hyperplasia in the pars anterior: (Focus)

Stomach

Glandular tissue in the muscular coat - glandular region

Colon

Goblet cell hyperplasia

Eyes

Lenticular degeneration: (Minimal, Unilateral)

(Pathology - continued)

Hamster No/Sex: 438F - continued

MICROSCOPIC FINDINGS - continued

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea; Larynx; Lachrymal Gland; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Parathyroids; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Bone Marrow/sternum; Bone/femur/joint

Tissues not available for examination were:

Thymus: (Not seen)

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

439F (Intercurrent)

CLINICAL FINDINGS

Concealed pallor and laboured respiration apparent from Week 72.

Incidental finding of hair loss was noted.

Found dead in Week 73.

MACROSCOPIC FINDINGS

Found dead

Skin Alopecia

Ventral surface: (Minimal, Diffuse) Hindlimbs: (Minimal, Diffuse)

Subcutis

Oedematous: Surrounding left cervical lymph node

Lymph Nodes - Cervical

Congested: (Left)

Thoracic Cavity

Contained straw coloured fluid

Lungs

Congested

Heart

Thrombus - left atrium: 6mm

Abdominal Cavity

Contained straw coloured fluid

Liver

Sucapsular cyst: Median lobe 3mm and left lobe 9mm ruptured

(Pathology - continued)

Hamster No/Sex: 439F - continued

MACROSCOPIC FINDINGS - continued

Forestomach

Excressence, epithelial aspect: 2mm

Stomach Antrum Mucosa

Haemorrhagic depression: 1mm

Small Intestine

Contents watery

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Marked) Prominent/thickened alveolar septae: (Marked)

Heart

Atrial thrombus

Myocardial degeneration: (Minimal)

Thymus

Involution

Lymph Nodes - Cervical

Sinusoidal congestion

Liver

Centrilobular hepatocyte vacuolation: (Minimal)

Biliary cyst(s)

Sinusoidal congestion: (Moderate, Diffuse)

Kidneys

Dilated basophilic tubules containing eosinophilic colloid: (Minimal)

Vagina

Squamous epithelial hyperplasia and hyperkeratosis: (Minimal, Diffuse)

(Pathology - continued)

Hamster No/Sex: 439F - continued

MICROSCOPIC FINDINGS - continued

Stomach

Ulceration of glandular epithelium Papillomatous hyperplasia of the non-glandular epithelium.: (Moderate, Area)

Subcutis

Oedema

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Uterus; Cervix; Thyroids; Parathyroids; Adrenals; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum; Bone/femur/joint

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 440F (Intercurrent)

CLINICAL FINDINGS

Concealed pallor and noisy respiration apparent from Week 60. Distended abdomen, unsteady gait and lethargy wee noted prior to sacrifice.

Sacrificed due to poor condition in Week 61.

MACROSCOPIC FINDINGS

Died awaiting post mortem

Skin Alopecia

Ventral surface: (Minimal, Diffuse)

Subcutis

Oedematous: (Minimal, Ventral)

Thoracic Cavity

Contained serosanguineous fluid

Liver

Swollen

Clear fluid-filled subcapsular cyst/s: (Multiple)

Irregular surface

Spleen

Pale area: 1mm

All the other organs and tissues appeared normal.

(Pathology - continued)

Hamster No/Sex: 440F - continued

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Marked) Pigmented alveolar macrophages: (Marked, Foci) Prominent/thickened alveolar septae: (Marked, Areas)

Heart

Atrial thrombus

Myocardial degeneration: (Minimal)

Thymus

Involution

Spleen

Extramedullary haemopoiesis: (Marked)

Capsular fibrosis: (Area)

Liver

Extramedullary haemopoiesis: (Marked, Foci) Pigmented multinucleate giant cells: (Moderate) Centrilobular hepatocyte necrosis: (Moderate) Centrilobular sinusoidal congestion: (Marked)

Pancreas

Islet cell hyperplasia: (Area)

Kidneys

Dilated and basophilic cortical tubules: (Moderate, Foci/areas)

Distended medullary tubule(s): (Minimal)

Radial area(s)-dilated basophilic tubules+/eosin colloid+/fibrosis:

(Trace, Unilateral)

Ovaries

A few vacuolated interstitial cells

Adrenals

Brown pigment at the corticomedullary junction

(Pathology - continued)

Hamster No/Sex: 440F - continued

MICROSCOPIC FINDINGS - continued

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction Submucosal keratin cyst - glandular/nonglandular junction

Bone/femur/joint

Osteoarthrosis

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Liver (ORO stain); Urinary Bladder; Uterus; Cervix; Vagina; Thyroids; Parathyroids : (One only); Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon: Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 441F (Terminal)

CLINICAL FINDINGS

Abdomen distended noted from Week 80 and firm to touch noted from Week 89.

Incidental finding of overgrown incisors was noted.

MACROSCOPIC FINDINGS

Liver

Clear fluid-filled subcapsular cyst: Median lobe 22mm Clear fluid-filled subcapsular cyst/s: (A few) Left 4mm

Kidneys

Pale

Uniform cortical scarring: (Moderate)

Ovaries

Serosanguineous fluid-filled cyst: (Left) 3mm

Cervix

Thickened

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Heart

Myocardial degeneration: (Minimal) Osteoid deposition adjacent to aorta

Liver

Parenchymal inflammatory cells: (Minimal)

Biliary cyst(s)

(Pathology - continued)

Hamster No/Sex: 441F - continued

MICROSCOPIC FINDINGS - continued

Pancreas

Interstitial inflammatory cells Hepatocyte like cells

Kidneys

Nephropathy: (Moderate)

Adrenals

Subcapsular proliferation of fibroblast like cells: (Trace) Cortical cystic degeneration: (Minimal)

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lungs; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain): Urinary Bladder; Ovaries : (W.N.L.); Uterus; Cervix : (W.N.L.); Vagina; Thyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

Tissues not available for examination were:

Thymus: (Not seen)
Parathyroids: (Not seen)

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

442F (Intercurrent)

CLINICAL FINDINGS

Abdomen firm to touch from Week 72. Generalised pallor from Week 82. Emaciated appearance from Week 87. Hunched posture, lethargy, apparent hypothermia and unsteady gait were noted prior to sacrifice.

Incidental finding of ulceration on muzzle was noted.

Sacrificed due to poor condition in Week 89.

MACROSCOPIC FINDINGS

Liver

Subcapsular cyst/s: (Two) Median lobe 4mm and 2mm Clear fluid-filled subcapsular cyst/s: (A few) Left lobe 8mm

Caecum

Distended: (Minimal)

Adrenals

Right, a cyst: 4mm

Kidneys

Irregular cortical scarring: (Minimal)

Ovaries

Haemorrhagic fluid-filled cyst: (Left) 11mm

All the other organs and tissues appeared normal.

(Pathology - continued)

Hamster No/Sex: 442F - continued

MICROSCOPIC FINDINGS

The following observations were noted:

Heart

Myocardial degeneration: (Minimal)

Arteriolar hypertrophy/perivascular collagen deposition

Thymus

Involution

Spleen

Haemosiderosis: (Moderate)

Liver

Periportal hepatocyte vacuolation: (Minimal)
Hepatocyte necrosis: (Minimal, Focus)
Pigmented multinucleate giant cells: (Moderate)
Cystic bile duct hyperplasia: (Minimal)

Multiple biliary cysts

Sinusoidal congestion: (Minimal)

Kidneys

Dilated basophilic tubules containing eosinophilic colloid: (Minimal) Dilated Bowman's capsule(s): (Minimal)

Ovaries

Distended periovarian sac-haemorrhagic

Uterus

Endometrial papillary hyperplasia

Thyroids

Ultimobranchial cysts

Adrenals

Cortical hyperplasia: (Minimal) Cortical cyst

Pituitary

Prominent adipose tissue Cyst(s) in pars intermedia

(Pathology - continued)

Hamster No/Sex: 442F - continued

MICROSCOPIC FINDINGS - continued

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction Mucosal inflammation - glandular region

Caecum

Mucosal ulceration

Bone Marrow/sternum

Myeloid hyperplasia

Bone/femur/joint

Marrow - prominent adipose tissue

Factors Contributory To Death

Poor clinical condition

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland: Lungs; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Liver (ORO stain); Pancreas; Urinary Bladder; Cervix; Vagina; Parathyroids: (One only); Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 443F (Intercurrent)

CLINICAL FINDINGS

Noisy respiration apparent Week 31 to 54 and from Week 56. Emaciated appearance from Week 61. Generalised pallor from Week 66. Red staining in urogenital region and unsteady gait were noted prior to sacrifice.

Incidental finding of overgrown incisors was noted.

Sacrificed due to poor condition in Week 68.

MACROSCOPIC FINDINGS

Liver

Subcapsular cyst/s: (A few) 4mm

Caecum

Gaseous distension

Adrenals

Pale punctate subcapsular foci: (Left) Cystic: (Right)

Uterus

Fluid distension: (Right horn, Dark) 4mm

Right horn, a mass: 15x7x5mm

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Larynx

Foreign material and debris - ventral pouch

(Pathology - continued)

Hamster No/Sex: 443F - continued

MICROSCOPIC FINDINGS - continued

Lungs

Increased numbers of alveolar macrophages: (Minimal, Foci) Prominent/thickened alveolar septae: (Minimal, Foci/areas)

Heart

Myocardial degeneration: (Minimal)

Liver

Extramedullary haemopoiesis: (Minimal, Foci) Multiple biliary cysts Large biliary cyst

Kidneys

Dilated basophilic tubules containing eosinophilic colloid: (Minimal, Foci)

Uterus

Luminal dilatation Endometrial adenocarcinoma: (NEOPLASTIC, MALIGNANT, PRIMARY)

Thyroids

Dilated follicle(s)

Adrenals

Cortical hyperplasia: (Moderate, Areas) Brown pigment at the corticomedullary junction Cystic spaces at the corticomedullary junction

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction

Sciatic Nerve

Degenerate nerve fibres

Factors Contributory To Death

Uterine tumour

(Pathology - continued)

Hamster No/Sex: 443F - continued

MICROSCOPIC FINDINGS - continued

The following tissues were considered normal:

Trachea; Nasal Passages; Lachrymal Gland; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Cervix; Vagina; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum: (W.N.L.); Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Eyes; Bone Marrow/sternum; Bone/femur/joint

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

444F (Intercurrent)

CLINICAL FINDINGS

Abdomen swollen and firm to touch, movement restricted due to swollen abdomen were noted prior to sacrifice.

Sacrificed due to poor condition in Week 70.

MACROSCOPIC FINDINGS

Subcutis

Oedematous: General

Pituitary

Enlarged: 0.0180g

Thoracic Cavity

Contained serosanguineous fluid

Heart

Thrombus - left atrium: 4mm

Liver

Enlarged: 11.680g Irregular surface Congested

Kidneys

Pale

All the other organs and tissues appeared normal.

(Pathology - continued)

Hamster No/Sex: 444F - continued

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Moderate)
Pigmented alveolar macrophages: (Moderate)
Prominent/thickened alveolar septae: (Marked)

Heart

Atrial thrombus
Osteoid deposition adjacent to aorta: (Focus)

Thymus

Involution

Spleen

Extramedullary haemopoiesis: (Moderate)

Liver

Extramedullary haemopoiesis: (Moderate) Centrilobular sinusoidal congestion: (Marked) Centrilobular hepatocyte degeneration: (Marked)

Kidneys

Cortical basophilic tubules.: (Minimal)
Distended medullary tubule(s): (Minimal)

Ovaries

A few vacuolated interstitial cells

Thyroids

C-cell adenoma: (NEOPLASTIC, BENIGN, PRIMARY)

Adrenals

Cortical hyperplasia: (Moderate, Area)

Pituitary

Hyperplasia in the pars anterior

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction

(Pathology - continued)

Hamster No/Sex: 444F - continued

MICROSCOPIC FINDINGS - continued

Subcutis Oedema

Bone/femur/joint Osteoarthrosis

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea: Larynx; Nasal Passages; Lachrymal Gland; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Liver (ORO stain); Urinary Bladder; Uterus; Cervix; Vagina; Parathyroids; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

Tissues not available for examination were:

Pancreas: (Not in pot)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 445F (Intercurrent)

CLINICAL FINDINGS

Laboured respiration from Week 79 and generalised pallor noted from Week 80. Hunched posture noted from Week 81. Right eyelid closed, lethargy, piloerection, apparent hypothermia and unsteady gait were noted prior to sacrifice.

Sacrificed due to poor condition in Week 82.

MACROSCOPIC FINDINGS

Heart

Thrombus - left atrium: 6mm

Liver

Sucapsular cyst: Right posterior lobe 4mm

Cyst: Left lobe 3mm Irregular surface

Adrenals

Left, a mass: 20mm

Kidneys

Pale: (Severe)

Irregular cortical scarring: (Minimal)

Ovaries

Clear fluid-filled cyst: (Right) 10mm

All the other organs and tissues appeared normal.

(Pathology - continued)

Hamster No/Sex: 445F - continued

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Moderate) Prominent/thickened alveolar septae: (Marked)

Heart

Atrial thrombus

Liver

Pigmented multinucleate giant cells: (Trace)
Biliary cyst(s)
Biliary cysts-haemorrhage, fibrosis and pigment deposition
Centrilobular sinusoidal congestion: (Moderate)
Centrilobular sinusoidal dilatation: (Moderate)

Pancreas

Dilated ducts

Kidneys

Nephropathy: (Moderate)

Ovaries

A few vacuolated interstitial cells Thecoma: (Bilateral , NEOPLASTIC , BENIGN , PRIMARY) Prominent lymphoid tissue in surrounding adipose tissue

Thyroids

Ultimobranchial cysts

Adrenals

Cortical carcinoma: (NEOPLASTIC, MALIGNANT, PRIMARY)
Reduced cortical width

Stomach

Papillomatous hyperplasia of the non-glandular epithelium.: (Minimal) Glandular tissue in the muscular coat non glandular/glandular junction

Bone/femur/joint

Misshapen distal extremity-femur

(Pathology - continued)

Hamster No/Sex: 445F - continued

MICROSCOPIC FINDINGS - continued

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Urinary Bladder; Uterus; Cervix; Vagina; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

Tissues not available for examination were:

Thymus: (Not seen)

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

446F (Intercurrent)

CLINICAL FINDINGS

Generalised pallor, hunched posture, laboured respiration and unsteady gait were noted prior to sacrifice.

Incidental finding of overgrown incisors was noted.

Sacrificed due to poor condition in Week 81.

MACROSCOPIC FINDINGS

Incisors

Maloccluded: (Upper)

Lungs

Consolidated

Kidneys

Uniform cortical scarring: (Minimal)

Uterus

Fluid distension: (Minimal)

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Marked) Prominent/thickened alveolar septae: (Marked)

Interstitial pneumonitis: (Moderate)

Focal osteoid deposition

(Pathology - continued)

Hamster No/Sex: 446F - continued

MICROSCOPIC FINDINGS - continued

Heart

Atrial thrombus

Myocardial degeneration: (Minimal)

Spleen

Extramedullary haemopoiesis: (Moderate)

Liver

Periportal hepatocyte vacuolation: (Minimal)

Kidnevs

Nephropathy: (Minimal)

Uterus

Endometrial papillary hyperplasia

Thyroids

Ultimobranchial cysts

Adrenals

Subcapsular proliferation of fibroblast like cells: (Minimal)

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction Submucosal keratin cyst - glandular/nonglandular junction

Bone/femur/joint

Osteoarthrosis

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Cervix; Vagina; Parathyroids; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

(Pathology - continued)

Hamster No/Sex: 446F - continued

MICROSCOPIC FINDINGS - continued

Tissues not available for examination were:

Pituitary: (Not seen)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 447F (Terminal)

CLINICAL FINDINGS

Incidental finding of overgrown incisors and swollen and bruised muzzle were noted.

MACROSCOPIC FINDINGS

Liver

Clear fluid-filled subcapsular cyst/s: (A few) Left lobe 14mm

Forestomach

White nodule, epithelial aspect: 2mm

Kidneys

Irregular cortical scarring: (Moderate)

Ovaries

Clear fluid-filled cyst: (Right) 4mm

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Focal osteoid deposition

Heart

Myocardial degeneration: (Minimal)

Liver

Biliary cysts-haemorrhage, fibrosis and pigment deposition Rarefied hepatocytes: (Minimal, Focus)

(Pathology - continued)

Hamster No/Sex: 447F - continued

MICROSCOPIC FINDINGS - continued

Kidneys

Nephropathy: (Minimal)

Thyroids

Ultimobranchial cysts

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction Mucosal inflammation - glandular region Papilloma - non-glandular region: (NEOPLASTIC, BENIGN, PRIMARY)

Eyes

Lenticular degeneration: (Moderate, Unilateral)

Retinal degeneration: (Unilateral)

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx: Nasal Passages; Lachrymal Gland; Thymus: Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries: (W.N.L.); Uterus; Cervix; Vagina; Parathyroids; Adrenals: (One only); Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Bone Marrow/sternum

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 448F (Intercurrent)

CLINICAL FINDINGS

Noisy respiration from Week 39. Emaciated appearance, generalised pallor, hunched posture, lethargy and loss of appetite were noted prior to sacrifice.

Sacrificed due to poor condition in Week 43.

MACROSCOPIC FINDINGS

Forestomach

Gaseous distension

Ileum

Gaseous distension

Caecum

Gaseous distension

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Nasal Passages

Polymorphs and exudate within nasal cavity-anterior portion

I iver

Periportal hepatocyte vacuolation: (Minimal)

Kidneys

Dystrophic mineralisation

Distended medullary tubule(s): (Trace)

(Pathology - continued)

Hamster No/Sex:

448F - continued

MICROSCOPIC FINDINGS - continued

Thyroids

Dilated follicle(s)

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction

Factors Contributory To Death

Poor clinical condition

The following tissues were considered normal:

Trachea; Larynx; Lachrymal Gland; Lungs; Heart; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Uterus; Cervix; Vagina; Parathyroids; Adrenals: (One only); Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum; Bone/femur/joint

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 449F (Terminal)

CLINICAL FINDINGS

No signs of ill health or behavioural change were noted.

MACROSCOPIC FINDINGS

Kidneys

Pale

Irregular cortical scarring: (Minimal)

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Kidnevs

Nephropathy: (Minimal)

Uterus

Endometrial papillary hyperplasia

Thyroids

Ultimobranchial cysts

Adrenals

Subcapsular proliferation of fibroblast like cells: (Trace)

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction Mucosal inflammation - glandular region

Bone/femur/joint

Osteoarthrosis

(Pathology - continued)

Hamster No/Sex: 449F - continued

MICROSCOPIC FINDINGS - continued

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lungs; Heart; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Cervix; Vagina; Parathyroids: (One only); Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 450F (Intercurrent)

CLINICAL FINDINGS

Abdomen hard noted in Week 86.

Incidental finding of overgrown incisors was noted.

Found dead in Week 86.

MACROSCOPIC FINDINGS

Found dead

Thoracic Cavity

Contained fluid

Lungs

Congested

Heart

Pale

Thrombus - left atrium: 5mm

Adrenals

Congested

Kidneys

Pale

Uniform cortical scarring: (Minimal)

All the other organs and tissues appeared normal.

(Pathology - continued)

Hamster No/Sex: 450F - continued

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Severe) Prominent/thickened alveolar septae: (Marked) Intra-alveolar oedema: (Minimal)

Heart

Atrial thrombus

Myocardial degeneration: (Minimal)

Spleen

Extramedullary haemopoiesis: (Moderate)

Liver

Centrilobular hepatocyte vacuolation: (Minimal) Centrilobular sinusoidal dilatation: (Minimal)

Kidnevs

Dystrophic mineralisation

Dilated basophilic tubules containing eosinophilic colloid: (Moderate)

Ovaries

Thecoma: (NEOPLASTIC, BENIGN, PRIMARY)

Tubular adenoma: (NEOPLASTIC, BENIGN, PRIMARY)

Uterus

Endometrial polyp: (NEOPLASTIC, BENIGN, PRIMARY)

Vagina

Keratin cyst

Adrenals

Subcapsular proliferation of fibroblast like cells: (Moderate, Foci) Cortical hyperplasia: (Moderate, Foci)

Pituitary

Adenoma in pars anterior: (NEOPLASTIC, BENIGN, PRIMARY)

(Pathology - continued)

Hamster No/Sex: 450F - continued

MICROSCOPIC FINDINGS - continued

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland: (One only); Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Liver (ORO stain); Pancreas; Urinary Bladder; Cervix; Thyroids: (One only); Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Stomach; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum; Bone/femur/joint

Tissues not available for examination were:

Thymus: (Not seen)
Parathyroids: (Not seen)

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

451F (Terminal)

CLINICAL FINDINGS

Incidental finding of hair loss was noted.

MACROSCOPIC FINDINGS

Heart

Pale

Liver

Clear fluid-filled subcapsular cyst/s: (Multiple) 12mm Irregular surface

Kidneys

Pale

Irregular cortical scarring: (Moderate)

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Heart

Myocardial degeneration: (Minimal)

Liver

Parenchymal inflammatory cells: (Minimal)

Biliary cyst(s)

Biliary cysts-haemorrhage, fibrosis and pigment deposition

Kidneys

Nephropathy: (Minimal)

Periarteritis

(Pathology - continued)

Hamster No/Sex: 451F - continued

MICROSCOPIC FINDINGS - continued

Uterus

Endometrial papillary hyperplasia

Thyroids

Ultimobranchial cysts

Adrenals

Cortical hyperplasia: (Minimal) Cystic spaces at the corticomedullary junction

Pituitary

Hyperplasia in the pars anterior

Skeletal Muscle

Periarteritis

Eves

Lenticular degeneration: (Minimal, Unilateral)

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lungs; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Cervix; Vagina; Parathyroids; Salivary Glands; Tongue; Oesophagus; Stomach; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Bone Marrow/sternum

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 452F (Intercurrent)

CLINICAL FINDINGS

Incidental finding of overgrown incisors was noted.

Found dead in Week 87.

MACROSCOPIC FINDINGS

Found dead

Incisors

Broken: (Left, Upper)

Thoracic Cavity

Contained clear serous fluid

Heart

Thrombus - left atrium: 5mm

Liver

Subcapsular cyst/s: (A few) Left median lobe 4mm

Irregular surface

Subcapsular mass: Left lobe 17x14x10mm

Kidnevs

Cortical depression/s: (Right, One) 3mm

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

(Pathology - continued)

Hamster No/Sex: 452F - continued

MICROSCOPIC FINDINGS - continued

Lungs

Increased numbers of alveolar macrophages: (Marked) Prominent/thickened alveolar septae: (Marked) Focal osteoid deposition

Heart

Atrial thrombus Myocardial degeneration: (Minimal)

Liver

Extramedullary haemopoiesis: (Moderate, Foci)
Bile duct hyperplasia: (Moderate, Foci)
Multiple biliary cysts
Biliary cysts-haemorrhage, fibrosis and pigment deposition
Sinusoidal congestion: (Moderate, Foci/areas)

Kidnevs

Dilated basophilic tubules containing eosinophilic colloid: (Minimal) Radial area(s)-dilated basophilic tubules+/eosin colloid+/fibrosis: (Minimal)

Ovaries

Distended periovarian sac-haemorrhagic

Vagina

Basal cell hyperplasia: (Area)

Adrenals

Subcapsular proliferation of fibroblast like cells: (Minimal)

Stomach

Papillomatous hyperplasia of the non-glandular epithelium.: (Moderate) Glandular tissue in the muscular coat non glandular/glandular junction

Eves

Lenticular degeneration: (Minimal, Unilateral)

Bone/femur/joint

Osteoarthrosis

(Pathology - continued)

Hamster No/Sex: 452F - continued

MICROSCOPIC FINDINGS - continued

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Uterus; Cervix; Thyroids; Parathyroids: (One only); Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Bone Marrow/sternum

Tissues not available for examination were:

Lachrymal Gland: (Not seen)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 453F (Intercurrent)

CLINICAL FINDINGS

Increased respiration from Week 90. Apparent hypothermia, generalised pallor extremities, lethargy, piloerection, unsteady gait and collapsed posture were noted prior to sacrifice.

Sacrificed due to poor condition in Week 91.

MACROSCOPIC FINDINGS

Skin Alopecia

Ventral surface: (Minimal)

Thoracic Cavity

Contained clear fluid

Lungs

Congested: (Minimal)

Liver

Clear fluid-filled cyst: Right posterior lobe 7mm

Clear fluid-filled subcapsular cyst: Median lobe 9mm, right anterior lobe

6mm

Clear fluid-filled subcapsular cyst/s: (Two) Left lobe 20mm and 5mm

Dark subcapsular area: Left lobe 4mm

Kidneys

Uniform cortical scarring: (Minimal)

Ovaries

Serosanguineous fluid-filled cyst: (Left) 9mm

All the other organs and tissues appeared normal.

(Pathology - continued)

Hamster No/Sex: 453F - continued

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Marked)
Prominent/thickened alveolar septae: (Moderate)

Interstitial pneumonitis: (Trace)

Heart

Atrial thrombus

Myocardial degeneration: (Minimal)

Liver

Sinusoidal dilatation/congestion: (Minimal) Centrilobular hepatocyte vacuolation: (Moderate) Pigmented multinucleate giant cells: (Minimal)

Biliary cyst(s)

Biliary cysts-haemorrhage, fibrosis and pigment deposition

Pancreas

Islet cell hyperplasia

Kidneys

Nephropathy: (Moderate)

Ovaries

A few vacuolated interstitial cells

Uterus

Endometrial papillary hyperplasia

Adrenals

Cortical hyperplasia: (Moderate)

Cystic spaces at the corticomedullary junction

Bone/femur/joint

Osteoarthrosis

(Pathology - continued)

Hamster No/Sex: 453F - continued

MICROSCOPIC FINDINGS - continued

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Thymus; Spleen; Liver (ORO stain); Urinary Bladder; Cervix; Thyroids: (One only); Parathyroids: (One only); Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Stomach; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

Tissues not available for examination were:

Lymph Nodes - Cervical: (Not in pot) Lymph Nodes - Mesenteric: (Not seen)

Vagina: (Not seen)

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

454F (Intercurrent)

CLINICAL FINDINGS

Laboured respiration and generalised pallor from Week 82. Hunched posture, lethargy and unsteady gait wee noted prior to sacrifice.

Incidental findings of overgrown incisors and hair loss were noted.

Sacrificed due to poor condition in Week 84.

MACROSCOPIC FINDINGS

Heart

Thrombus - left atrium: 8mm

Liver

Subcapsular cyst/s: (A few) 2mm

Adrenals

Pale punctate subcapsular foci

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Increased numbers of alveolar macrophages: (Marked) Prominent/thickened alveolar septae: (Marked)

Interstitial pneumonitis: (Moderate)

Heart

Atrial thrombus

Myocardial degeneration: (Minimal)

(Pathology - continued)

Hamster No/Sex: 454F - continued

MICROSCOPIC FINDINGS - continued

Thymus

Involution

Liver

Periportal hepatocyte vacuolation: (Minimal)

Biliary cyst(s)

Centrilobular sinusoidal congestion: (Minimal, Focal)

Liver (ORO stain)

Periportal fat deposition: (Trace)

Kidneys

Nephropathy: (Minimal)

Literus

Interstitial granular cells

Adrenals

Haemorrhage and necrosis - cortex: (Trace)

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction

Bone/femur/joint

Osteoarthrosis

Factors Contributory To Death

Atrial thrombus

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Splech: Pancreas; Urinary Bladder; Ovaries; Cervix; Vagina; Thyroids; Parathyroids; Pituitary; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

455F (Terminal)

CLINICAL FINDINGS

Incidental finding of overgrown incisors was noted.

MACROSCOPIC FINDINGS

Lungs

Congested

Liver

Irregular surface

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Lungs

Vascular congestion

Heart

Myocardial degeneration: (Minimal)

Liver

Multiple biliary cysts

Kidneys

Dilated and basophilic cortical tubules: (Minimal)

Distended medullary tubule(s): (Trace)

Uterus

Endometrial papillary hyperplasia

Cervix

Hyperplasia of endometrial glands at cervix

(Pathology - continued)

Hamster No/Sex: 455F - continued

MICROSCOPIC FINDINGS - continued

Vagina

Basal cell hyperplasia

Epithelial hyperkeratosis: (Moderate)

Parathyroids

Adenoma: (NEOPLASTIC, BENIGN, PRIMARY)

Adrenals

Subcapsular proliferation of fibroblast like cells: (Minimal) Brown pigment at the corticomedullary junction

Pituitary

Hyperplasia in the pars anterior

Eves

Lenticular degeneration: (Trace, Unilateral)

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx: Nasal Passages; Lachrymal Gland; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Thyroids; Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Stomach; Duodenum; Jejunum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Bone Marrow/sternum

(Pathology - continued)

Compound:

FAT 80'023/S

Dosage Level:

Control

Hamster No/Sex:

456F (Terminal)

CLINICAL FINDINGS

Incidental findings of overgrown incisors and hair loss were noted.

MACROSCOPIC FINDINGS

Heart

Pale

Liver

Clear fluid-filled subcapsular cyst/s: (A few) 8mm

Kidnevs

Irregular cortical scarring: (Minimal)

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Heart

Myocardial degeneration: (Minimal)

Liver

Multiple biliary cysts

Biliary cysts-haemorrhage, fibrosis and pigment deposition

Kidneys

Nephropathy: (Minimal)

Thyroids

Ultimobranchial cysts

(Pathology - continued)

Hamster No/Sex: 456F - continued

MICROSCOPIC FINDINGS - continued

Adrenals

Subcapsular proliferation of fibroblast like cells: (Trace)

Cortical hyperplasia: (Minimal)

Pituitary

Hyperplasia in the pars anterior

Stomach

Glandular tissue in the muscular coat non glandular/glandular junction Mucosal inflammation - glandular region

Bone/femur/joint

Osteoarthrosis

The following tissues were considered normal:

Trachea; Larynx; Nasal Passages; Lachrymal Gland; Lungs; Thymus; Lymph Nodes - Cervical; Lymph Nodes - Mesenteric; Spleen; Liver (ORO stain); Pancreas; Urinary Bladder; Ovaries; Uterus; Cervix; Vagina; Parathyroids: (One only); Salivary Glands; Skeletal Muscle; Tongue; Oesophagus; Duodenum; Ileum; Caecum; Colon; Rectum; Mammary Glands; Skin; Brain; Spinal Cord; Sciatic Nerve; Eyes; Bone Marrow/sternum

Tissues not available for examination were:

Jejunum: (Not in pot)

(Pathology - continued)

Compound: FAT 80'023/S

Dosage Level: Control

Hamster No/Sex: 457F (Intercurrent)

CLINICAL FINDINGS

Generalised pallor, hunched posture and noisy respiration noted from Week 66. Unsteady gait and emaciated appearance were noted prior to sacrifice.

Incidental findings of overgrown incisors was noted.

Sacrificed due to poor condition in Week 67.

MACROSCOPIC FINDINGS

Stomach

Gaseous distension

Small Intestine

Gaseous distension

All the other organs and tissues appeared normal.

MICROSCOPIC FINDINGS

The following observations were noted:

Nasal Passages

Polymorphs and exudate within nasal cavity-anterior portion

Pancreas

Interstitial inflammatory cells

Kidneys

Distended medullary tubule(s): (Minimal)

Dilated basophilic tubules containing eosinophilic colloid: (Moderate,

Foci)

Thyroids

C-cell adenoma: (NEOPLASTIC, BENIGN, PRIMARY)